

# Weekly Report

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## 1 Work scheduled in last week

The work scheduled in last week is listed as below: 1. To get all the compute results for all the datasets, including the ones from others papers. 2. Patent writing. 3. Time varying, grib2 formatted climate data extraction, as the prepare for the demo. 4. EuroVis paper collection.

## 2 Introduction

As the prior section mentioned, four aspects of work had been scheduled in the last report. Patent writing has been done already as planned. EuroVis paper collection is also ready to appear on the web. However, another two are in trouble. It seems that the time varying, 17 time steps climate datasets is not collect. As for the first item of the list, I can find all the links while no available download links can be found in the web pages. I will try it again these two days.

Besides above, the survey paper modification has been done.

## 3 Details

In this section, I mainly show the issue of the third item in the schedule list. The current dataset is grib2 format. We should employ grads to do the raw data extraction. The version of grads is 2.0, opengrads.

First, we run the grads. As a verification, we do the extraction for the grib1 data, the result of the command to generate a ctl file (the description file for the raw data) is correct for this step and a ctl file is generated. Then, I use the corresponding command for grib2 file ( this grib2 file is not the time varying, 17 time step climate dataset, is the one I used before ): The result is also correct.

finally, the command is applied to the target dataset, there is an error. The error is:

FATAL ERROR: rd grib2 msg, missing end section ( '7777' )

I searched the issue on the web like <http://bbs.06climate.com/>, a famous forum, for a whole day to make sure the problem is caused by the dataset.

## 4 Conclusion and Future Work

As a conclusion, I will try to collect the datasets appeared in others' papers, if done, do the compress test. For the time varying demo, I will use the old dataset, also time varying, less feature, to have a test first. These two works are the main work in this week.

## References